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Methylenetetrahydrofolate reductase

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ulation and clamping in a rat CEA model (Brown et al). 2004;40:796-802

Mice, knockout

CCR2^{-/-} knockout mice revascularize normally in response to severe hindlimb ischemia (Tang et al). 2004;40:786-95

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Muscle, skeletal

Autologous skeletal myoblasts transduced with a new adenoviral bicistronic vector for treatment of hind limb ischemia (Niagara et al). 2004;40:774-85

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Aging exacerbates neointimal formation, and increases proliferation and reduces susceptibility to apoptosis of vascular smooth muscle cells in mice (Vazquez-Padron et al). 2004;40:1199-1207

Intracellular calcium transients are necessary for platelet-derived growth factor but not extracellular matrix protein-induced vascular smooth muscle cell migration (Hollenbeck et al). 2004;40:351-8

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Naloxone lowers cerebrospinal fluid levels of excitatory amino acids after thoracoabdominal aortic surgery (Kunihara et al). 2004;40:670-80

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Carotid artery stenting is associated with increased complications in octogenarians: 30-day stroke and death rates in the CREST lead-in phase (Hobson et al). 2004;40:1106-11

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- Q**
- Quackery**
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- Receptors, chemokine**
- CCR2^{-/-} knockout mice revascularize normally in response to severe hindlimb ischemia (Tang et al). 2004;40:786-95

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- Successful endovascular repair of an aneurysm of the ductus diverticulum with a branched stent graft: case report and review of literature (Saito et al). 2004;40:1228-33 (Case rep.)
- Surgical versus endovascular treatment of traumatic thoracic aortic rupture (Amabile et al). 2004;40:872-9
- Technical challenges in a program of carotid artery stenting (Choi et al). 2004;40:746-51
- Transcervical carotid stenting with internal carotid artery flow reversal: feasibility and preliminary results (Criado et al). 2004;40:476-83
- Transesophageal echocardiography-guided algorithm for stent-graft implantation in aortic dissection (Rocci et al). 2004;40:880-5
- Use of computer simulation for determining endovascular skill levels in a carotid stenting model (Hus et al). 2004;40:1118-26
- Stilbenes**
- Resveratrol, a red wine polyphenol, protects spinal cord from ischemia-reperfusion injury (Kiziltepe et al). 2004;40:138-45
- Subclavian artery**
- Iatrogenic subclavian artery pseudoaneurysm causing airway compromise: treatment with percutaneous thrombin injection (Jeganathan et al). 2004;40:371-4 (Case rep.)
- Surgical Ethics Challenges**
- Ethical nuances of combining romance with medical practice (Jones et al). 2004;40:1255-7
- The ethics of innovative surgical approaches for well-established procedures (Jones et al). 2004;40:199-201

- The ethics of personal advertising in surgery (Jones et al). 2004;40:397-9
- Ethics of refusal to treat patients as a social statement (Jones et al). 2004;40:1057-9
- Family-surgeon disagreements over interventions (Jones et al). 2004;40:831-2
- Stem cell research: obligations when religious values conflict with professional values (Jones and McCullough). 2004;40:589-91

Surgical instruments

- The use of the Angioseal device for femoral artery closure (Abando et al). 2004;40:287-90

Surveys; see Data collection

Survival analysis

- Long-term survival after vascular surgery: specific influence of cardiac factors and implications for preoperative evaluation (Back et al). 2004;40:752-60

T

Technical Notes

- Technical Notes. 2004;40:1246-7

Terminology

- Regarding "Aortofemoral bypass in young patients with premature atherosclerosis: is superficial femoral vein superior to Dacron?" (Kim and Yul) (Letter); (Cronenwett and Seeger) (Reply). 2004;40:1062

Thoracic outlet syndrome

- Combination treatment of venous thoracic outlet syndrome: open surgical decompression and intraoperative angioplasty (Schneider et al). 2004;40:599-603

Thrombectomy

- Combined regional thrombolysis and surgical thrombectomy for treatment of iliofemoral vein thrombosis (Blättler et al). 2004;40:620-5
- Pharmacomechanical thrombectomy for treatment of symptomatic lower extremity deep venous thrombosis: safety and feasibility study (Bush et al). 2004;40:965-70
- Protruding aortic arch thrombus: treatment with minimally invasive surgical approach (Schneiderman et al). 2004;40:1083-8

Thrombin

- Iatrogenic subclavian artery pseudoaneurysm causing airway compromise: treatment with percutaneous thrombin injection (Jeganathan et al). 2004;40:371-4 (Case rep.)
- Occlusion of a giant splenic artery pseudoaneurysm with percutaneous thrombin-collagen injection (Huang et al). 2004;40:574-7 (Case rep.)

Thrombolytic therapy

- Clinical and economic outcomes in thrombolytic treatment of peripheral arterial occlusive disease and deep venous thrombosis (Ouriel et al). 2004;40:971-7
- Combined regional thrombolysis and surgical thrombectomy for treatment of iliofemoral vein thrombosis (Blättler et al). 2004;40:620-5
- Pharmacomechanical thrombectomy for treatment of symptomatic lower extremity deep venous thrombosis: safety and feasibility study (Bush et al). 2004;40:965-70

Thrombosis

- Floating thoracic aortic thrombus in "protein S" deficient patient (Hazirolan et al). 2004;40:381
- Masson's intravascular hemangioma masquerading as effort thrombosis (Kumar et al). 2004;40:812-14 (Case rep.)
- Nitric oxide-releasing biopolymers inhibit thrombus formation

- in a sheep model of arteriovenous bridge grafts (Fleser et al). 2004;40:803-11
- Protruding aortic arch thrombus: treatment with minimally invasive surgical approach (Schneiderman et al). 2004;40:1083-8
- Recanalization of arterial thrombus, and inhibition with β -radiation in a new murine carotid occlusion model: mRNA expression of angiopoietins, metalloproteinases, and their inhibitors (Raymond et al). 2004;40:1190-8
- Regarding "Floating thoracic aortic thrombus in 'protein S' deficient patient" (Manfredini et al) (Letter); (Perler and Bluemke) (Reply). 2004;40:1062-3
- Time factors**
- Activation of fibrinolytic pathways is associated with duration of supraceliac aortic cross-clamping (Haithcock et al). 2004;40:325-33
- Tissue adhesives**
- Embolus of surgical adhesive to the extremities during acute ischemia: report of two cases (Guerrero et al). 2004;40:571-3 (Case rep.)
- Tissue culture**
- Decellularized vein as a potential scaffold for vascular tissue engineering (Schaner et al). 2004;40:146-53
- Tissue harvesting**
- The Giacomini vein as an autologous conduit in infrainguinal arterial reconstruction (Delis et al). 2004;40:578-81 (Case rep.)
- Regarding "Deep vein harvest: predicting need for fasciotomy" (Nevelsteen et al) (Letter); (Modrall and Clagett) (Reply). 2004;40:403-4
- Tomography, emission-computed**
- Diagnosis of vascular prosthesis infection with FDG-PET/CT (Štádlér et al). 2004;40:1246-7 (Tech. Note)
- Tomography, X-ray computed**
- Decreased use of iliac extensions and reduced graft junctions with software-assisted centerline measurements in selection of endograft components for endovascular aneurysm repair (Velazquez et al). 2004;40:222-7
- Is three-dimensional computed tomography reconstruction justified before endovascular aortic aneurysm repair? (Sprouse et al). 2004;40:443-7
- Late lumbar hemorrhage after open repair of abdominal aortic aneurysm: computed tomographic appearance resembling type II endoleak (Yow and McCleary). 2004;40:1037-9 (Case rep.)
- Regarding "Decreased use of iliac extensions and reduced graft junctions with software assisted centerline measurements" (Adiseshiah) (Letter); (Velazquez) (Reply). 2004;40:1063-4
- Transducers, pressure**
- First experience in human beings with a permanently implantable intrasac pressure transducer for monitoring endovascular repair of abdominal aortic aneurysms (Ellozy et al). 2004;40:405-12
- Treatment outcome**
- Causes of varicose vein recurrence: late results of randomized controlled trial of stripping the long saphenous vein (Winterborn et al). 2004;40:634-9
- Clinical effect of abdominal aortic aneurysm endografting: 7-year concurrent comparison with open repair (Cao et al). 2004;40:841-8
- Combination treatment of venous thoracic outlet syndrome: open surgical decompression and intraoperative angioplasty (Schneider et al). 2004;40:599-603
- Does a standardization tool to direct invasive therapy for symptomatic lower extremity peripheral arterial disease improve outcomes? (Androes et al). 2004;40:907-15
- Effect of ethnicity on access and device complications during endovascular aneurysm repair (Masuda et al). 2004;40:24-9
- Effect of improved endograft design on outcome of endovascular aneurysm repair (Torella). 2004;40:216-21. Correction 2004;40:563
- Impact of endovascular repair on early outcomes of ruptured abdominal aortic aneurysms (Lee et al). 2004;40:211-15
- Infected aortic aneurysms: clinical outcome and risk factor analysis (Hsu et al). 2004;40:30-5
- Infrainguinal vein bypass graft revision: factors affecting long-term outcome (Nguyen et al). 2004;40:916-23
- Long-term results of covered stent repair of internal carotid artery dissections (Assadian et al). 2004;40:484-7
- Midterm outcome of endovascular abdominal aortic aneurysm repair in octogenarians: a single institution's experience (Biebl et al). 2004;40:435-42
- Midterm pivotal trial results of the Talent Low Profile System for repair of abdominal aortic aneurysm: analysis of complicated versus uncomplicated aortic necks (Fairman et al). 2004;40:1074-82
- Prospective randomized study on reversed saphenous vein infrapopliteal bypass to treat limb-threatening ischemia: common femoral artery versus superficial femoral or popliteal and tibial arteries as inflow (Ballotta). 2004;40:732-40
- Surgical management of renal artery aneurysms (English et al). 2004;40:53-60
- Surgical versus endovascular treatment of traumatic thoracic aortic rupture (Amabile et al). 2004;40:872-9
- Total laparoscopic infrarenal aortic aneurysm repair: preliminary results (Coggia et al). 2004;40:448-54
- Treatment refusal**
- Patient risk perceptions for carotid endarterectomy: which patients are strongly averse to surgery? (Bosworth et al). 2004;40:86-91
- Tunica intima**
- Intimal angiosarcoma of the aorta: report of a case and review of the literature (Thalheimer et al). 2004;40:548-53 (Case rep.)
- Perivascular delivery of losartan with surgical fibrin glue prevents neointimal hyperplasia after arterial injury (Moon et al). 2004;40:130-7
- Pharmacologic inhibition of nitric oxide synthases and cyclooxygenases enhances intimal hyperplasia in balloon-injured rat carotid arteries (Fischer et al). 2004;40:115-22
- Transduction of peptide analogs of the small heat shock-related protein HSP20 inhibits intimal hyperplasia (Tessier et al). 2004;40:106-14
- U**
- Ulnar artery**
- Hypothenar hammer syndrome: distal ulnar artery reconstruction with autologous inferior epigastric artery (Smith HE et al). 2004;40:1238-42 (Case rep.)
- Ultrasonography**
- Ultrasound findings after radiofrequency ablation of the great saphenous vein: descriptive analysis (Salles-Cunha et al). 2004;40:1165-73

Ultrasonography, Doppler, duplex

- Hemodynamic and clinical impact of ultrasound-derived venous reflux parameters (Neglén et al). 2004;40:303-10
- Ocular findings as predictors of carotid artery occlusive disease: is carotid imaging justified? (McCullough et al). 2004;40:279-86
- Optimizing infrainguinal arm vein bypass patency with duplex ultrasound surveillance and endovascular therapy (Armstrong et al). 2004;40:724-31
- Outcome of popliteal artery aneurysms after exclusion and bypass: significance of residual patent branches mimicking type II endoleaks (Mehta et al). 2004;40:886-90

Ultrasonography, interventional

- Role of prophylactic temporary inferior vena cava filters placed at the ICU bedside under intravascular ultrasound guidance in patients with multiple trauma (Rosenthal et al). 2004;40:958-64

United States Food and Drug Administration (FDA)

- Inappropriate industry influence on FDA processes (Perler). 2004;40:594 (Letter)
- Medical device adverse event reports and the Food and Drug administration (Greenfield). 2004;40:395-6 (Editorial)
- Misperceptions regarding the long-term safety of the AneuRx stent graft (Zarins and Bloch). 2004;40:594-5 (Letter)
- Regarding "Withdrawal of article by the FDA after objection from Medtronic" (Greenfield). 2004;40:594 (Letter)
- Withdrawal of article by the FDA after objection from Medtronic (Cronenwett and Seeger). 2004;40:209-10

V

Varicose ulcer

- Perforator vein incompetence in chronic venous disease: a multivariate regression analysis model (Delis). 2004;40:626-33. Correction 2004;40:1031

Varicose veins

- Causes of varicose vein recurrence: late results of randomized controlled trial of stripping the long saphenous vein (Winterborn et al). 2004;40:634-9
- Neovascularization and recurrent varicose veins: more histologic and ultrasound evidence (van Rij et al). 2004;40:296-302
- Prevalence, risk factors, and clinical patterns of chronic venous disorders of lower limbs: a population-based study in France (Carpentier et al). 2004;40:650-9
- Silicone patch saphenoplasty to prevent repeat recurrence after surgery to treat recurrent saphenofemoral incompetence: long-term follow-up study (De Maeseeneer et al). 2004;40:98-105

Vasa vasorum

- Adventitial vasa vasorum heterogeneity among different vascular beds (Galili et al). 2004;40:529-35

Vascular Images

- Exceptionally large renal artery aneurysm (Chiesa et al). 2004;40:1245
- Floating thoracic aortic thrombus in "protein S" deficient patient (Hazirolan et al). 2004;40:381
- Persistent sciatic artery as collateral for an occluded iliofemoral system (Samson and Showalter). 2004;40:183. Correction 2004;40:295
- Primary popliteal venous aneurysm (Tambyraja et al). 2004;40:830
- Ruptured abdominal aortic aneurysm with aorto-caval fistula (Adili et al). 2004;40:582

- Transcatheter embolization of a splenic artery aneurysm (Schmittling and McLafferty). 2004;40:1049

Vascular patency

- Optimizing infrainguinal arm vein bypass patency with duplex ultrasound surveillance and endovascular therapy (Armstrong et al). 2004;40:724-31

Vascular surgery

- Choice of vascular surgery as a specialty: survey of vascular surgery residents, general surgery chief residents, and medical students at hospitals with vascular surgery training programs (Calligaro et al). 2004;40:978-84
- Presidential address: Canine or chameleon (revisited): a never-ending challenge in a perpetually changing world (Hodgson). 2004;40:1050-6
- Presidential address: A live dog is better than a dead lion (Green). 2004;40:583-8
- Presidential address: Nostrums, quackery, and ethics in vascular surgery: how to remain true to the path of Hippocrates and still feed our families (Ascher). 2004;40:389-94
- Presidential address: Vascular surgery: is our name Mudd or Quasimodo? (Snyder). 2004;40:194-8
- Vascular surgery training in the United States, 1994 to 2003 (Cronenwett). 2004;40:660-9

Vascular surgical procedures

- Axillary to saphenous vein bypass for treatment of central venous obstruction in patients receiving dialysis (Kavalliaratos et al). 2004;40:640-3
- Axillorenal arteriovenous graft: a new approach for dialysis access (Karp et al). 2004;40:379-80 (Case rep.)
- Combination treatment of venous thoracic outlet syndrome: open surgical decompression and intraoperative angioplasty (Schneider et al). 2004;40:599-603
- Computer simulation as a component of catheter-based training (Dayal et al). 2004;40:1112-7
- Decreased use of iliac extensions and reduced graft junctions with software-assisted centerline measurements in selection of endograft components for endovascular aneurysm repair (Velazquez et al). 2004;40:222-7
- The ethics of innovative surgical approaches for well-established procedures (Jones et al). 2004;40:199-201
- The Giacomini vein as an autologous conduit in infrainguinal arterial reconstruction (Delis et al). 2004;40:578-81 (Case rep.)
- Hypothenar hammer syndrome: distal ulnar artery reconstruction with autologous inferior epigastric artery (Smith HE et al). 2004;40:1238-42 (Case rep.)
- Minimally invasive retroperitoneal approach for the treatment of infrarenal aortic disease (Piquet et al). 2004;40:455-62
- Percutaneous repair of abdominal aortic aneurysm (Morasch et al). 2004;40:12-16
- Pharmacomechanical thrombectomy for treatment of symptomatic lower extremity deep venous thrombosis: safety and feasibility study (Bush et al). 2004;40:965-70
- Predictors of complications after a prospective evaluation of diagnostic and therapeutic endovascular procedures (Danetz et al). 2004;40:1142-8
- Prospective randomized study on reversed saphenous vein infrapopliteal bypass to treat limb-threatening ischemia: common femoral artery versus superficial femoral or popliteal and tibial arteries as inflow (Ballotta). 2004;40:732-40
- Protruding aortic arch thrombus: treatment with minimally invasive surgical approach (Schneiderman et al). 2004;40:1083-8

- Randomized comparison of 6-mm straight grafts versus 6- to 8-mm tapered grafts for brachial-axillary dialysis access (Polo et al). 2004;40:319-24
- Regarding "Cold visceral perfusion improves early survival in patients with acute renal failure after thoracoabdominal aortic aneurysm repair" (Molina) (Letter); (Hassoun et al) (Reply). 2004;40:205
- Regarding "A new approach to carotid angioplasty and stenting with transcervical occlusion and protective shunting: why it may be a better carotid artery intervention" (Chang). 2004;40:1062 (Letter)
- Resection of an intravenous leiomyoma with intracardiac extension with use of endovascular techniques (DeRubertis et al). 2004;40:554-8 (Case rep.)
- Side-to-side sutureless vascular anastomosis with magnets (Erdmann et al). 2004;40:505-11
- Silicone patch saphenoplasty to prevent repeat recurrence after surgery to treat recurrent saphenofemoral incompetence: long-term follow-up study (De Maeseneer et al). 2004;40:92-7
- Surgical management of peripancreatic arterial aneurysms (Moore et al). 2004;40:247-53
- Technical challenges in a program of carotid artery stenting (Choi et al). 2004;40:746-51
- Transcervical carotid stenting with internal carotid artery flow reversal: feasibility and preliminary results (Criado et al). 2004;40:476-83
- Transposition of the brachial vein: a new source for autologous arteriovenous fistulas (Bazan and Schanzer). 2004;40:184-6 (Tech. Note)
- The use of the Angioseal device for femoral artery closure (Abando et al). 2004;40:287-90
- Vasodilation**
- Curcumin blocks homocysteine-induced endothelial dysfunction in porcine coronary arteries (Ramaswami et al). 2004;40:1216-22
- Vena cava, inferior**
- Repair of a thoracoabdominal aortic aneurysm in the presence of a left-sided inferior vena cava (Giglia and Thompson). 2004;40:161-3 (Case rep.)
- Ruptured abdominal aortic aneurysm with aorto-caval fistula (Adili et al). 2004;40:582
- Vena cava filters**
- Role of prophylactic temporary inferior vena cava filters placed at the ICU bedside under intravascular ultrasound guidance in patients with multiple trauma (Rosenthal et al). 2004;40:958-64
- Venae cavae**
- Ruptured abdominal aortic aneurysm with aorto-caval fistula (Adili et al). 2004;40:582
- Venography; see Phlebography**
- Venous insufficiency**
- C-reactive protein and red cell aggregation correlate with late venous function after acute deep venous thrombosis (Krieger et al). 2004;40:644-9
- Diaphragm-like membrane causing common femoral vein obstruction: case report (Kilkens et al). 2004;40:815-18 (Case rep.)
- Hemodynamic and clinical impact of ultrasound-derived venous reflux parameters (Neglén et al). 2004;40:303-10
- Neovascularization and recurrent varicose veins: more histologic and ultrasound evidence (van Rij et al). 2004;40:296-302
- Perforator vein incompetence in chronic venous disease: a multivariate regression analysis model (Delis). 2004;40:626-33. Correction 2004;40:1031
- Prevalence, risk factors, and clinical patterns of chronic venous disorders of lower limbs: a population-based study in France (Carpentier et al). 2004;40:650-9
- Radiation-associated venous stenosis: endovascular treatment options (Zhou et al). 2004;40:179-82 (Case rep.)
- Revision of the CEAP classification for chronic venous disorders: consensus statement (Eklöf et al). 2004;40:1248-52
- Venous thrombosis**
- C-reactive protein and red cell aggregation correlate with late venous function after acute deep venous thrombosis (Krieger et al). 2004;40:644-9
- Clinical and economic outcomes in thrombolytic treatment of peripheral arterial occlusive disease and deep venous thrombosis (Ouriel et al). 2004;40:971-7
- Combined regional thrombolysis and surgical thrombectomy for treatment of iliofemoral vein thrombosis (Blättler et al). 2004;40:620-5
- Deep vein thrombosis resolution is not accelerated with increased neovascularization (Varma et al). 2004;40:536-42
- Deep venous thrombosis after radiofrequency ablation of greater saphenous vein: a word of caution (Hingorani et al). 2004;40:500-4
- Five-year outcome study of deep vein thrombosis in the lower limbs (Asbeutah et al). 2004;40:1184-9
- Pharmacomechanical thrombectomy for treatment of symptomatic lower extremity deep venous thrombosis: safety and feasibility study (Bush et al). 2004;40:965-70
- Prevalence, risk factors, and clinical patterns of chronic venous disorders of lower limbs: a population-based study in France (Carpentier et al). 2004;40:650-9
- Radiation-associated venous stenosis: endovascular treatment options (Zhou et al). 2004;40:179-82 (Case rep.)
- Re-evaluation of iliac compression syndrome using magnetic resonance imaging in patients with acute deep venous thromboses (Fraser et al). 2004;40:604-11
- W**
- Walking**
- Effect of carbohydrate supplementation on walking performance in peripheral arterial disease: a preliminary physiologic study (Barker et al). 2004;40:932-8
- Warfarin**
- Regarding "Floating thoracic aortic thrombus in 'protein S' deficient patient" (Manfredini et al) (Letter); (Perler and Bluemke) (Reply). 2004;40:1062-3
- Wine**
- Resveratrol, a red wine polyphenol, protects spinal cord from ischemia-reperfusion injury (Kiziltepe et al). 2004;40:138-45
- Wounds, nonpenetrating**
- Stent-graft repair of traumatic thoracic aortic disruptions (Wellons et al). 2004;40:1095-1100
- Wounds, penetrating**
- Endovascular treatment of penetrating injury of axillary vein with Viabahn endoprosthesis (Kumar). 2004;40:1243-4 (Case rep.)